1 - General Information

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RM-14 Product Selection

The RM-14 (Nokia 7280) is a new triple band mobile terminal. RM-14 is designed for the GSM900 (including EGSM), GSM1800 and GSM1900 networks.

Figure 1:RM-14

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Enhancements List

Enhancements

Enhancements to be supported by RM-14, NOKIA 7280.

Marketing name	Type designation	Comment
Audio		
Headset	HDC-5	
Boom Headset	HDB-5	
Retractable Headset	HDC-10	
Dual Headset	HDD-1	
Dual Headset	HS-7	
Mobile Inductive Loopset	LPS-3	
Dual Headset	HS-14	
Wireless Clip-on Headset	HS-3W	
Wireless Boom Headset	HS-4W	pearlwhite and silver variants available
Wireless Basic Headset	HS-11W	
Wireless Image Headset	HS-13W	
Car		
Basic Wireless Handsfree	HF-6W	
Advanced Car Kit	CK-7W	
Carrying		
Carrying pouch		
Carrying strap wrist		
Covers		
N.A.		
Data		
Digital Pen	SU-1B	
Imaging and Lifestyle		
Nokia Observation Camera II	PT-6	MMS interface to terminal

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Imaging and Lifestyle		
Image Viewer	SU-2	
Image Frame	SU-4	requires IrDA
Image Frame	SU-7	IrDA and MMS
Image Album	PD-1	
Medallion I	RX-3	
Medallion II	RX-4	
Kaleidoscope I	RX-11	
Power		
Battery	BL-8N	fixed battery
Retractable Charger	AC-1	available in black and white
Charger	ACP-7	
Charger	ACP-8	
Charger	ACP-12	
Mobile Charger	LCH-9	
Mobile Charger	LCH-12	

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Technical Specifications

General specifications of transceiver RM-14

Table 1: General specifications

Unit	Dimensions (mm) (L x W x T)	Weight (g)	Volume (cm^3)
Transceiver with BL-5C 850mAh Li-ion battery pack	115 x 32,05 x 19,60mm	~85	64

Table 2: Parameter values

Parameter	Unit
Cellular System	GSM900, EGSM900, GSM1800 and GSM1900
RX Frequency Band	EGSM: 925 - 935 MHz GSM900: 935 - 960 MHz GSM1800: 1805 - 1880 MHz GSM1900: 1930 - 1990 MHz
TX Frequency Band	EGSM: 880 - 890 MHz GSM900: 890 - 915 MHz GSM1800: 1710 - 1785 MHz PCS1900: 1850 - 1910 MHz
Output Power	GMSK EGSM900: +5…+33 dBm / 3.2mW…2W GSM1800: +0…+30 dBm / 1.0mW…1W GSM1900: +0…+30 dBm / 1.0mW…1W 8-PSK EGSM900: +5…+27 dBm / 3.2mW…2W GSM1800: +0…+26 dBm / 1.0mW…1W GSM1900: +0…+26dBm 1.0mW…1W
Number of RF Channels	EGSM: 124 GSM1800: 374 GSM1900: 300
Channel Spacing	200 kHz
Number of TX Power Levels	GSM900 *: 15 GSM1800: 16 GSM1900: 16

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Battery endurance

Nokia measurements of the operational times in (E)GSM900, GSM1800 and GSM1900 are:

Table 3: Battery endurance

Talk time with battery BL-5C	
Talk time	Up to 2-3 hours
Talk time (ECTEL)	350,31mA
Stand-by time	Up to 200-240 h
Standby time (ECTEL)	12,78mA

Variation in operation times will occur depending on SIM card, network settings and usage. When testing MS battery life, it is initially assumed that the MS is a single band MS operating with the GSM FR speech codec, GPRS/EGPRS is not active.

Environmental conditions

Table 4: Environmental conditions

Environmental condition	Ambient temperature	Notes
Normal operation	-10 °C ... +55 °C	Specifications fulfilled
Reduced performance	+55 °C ... +65 °C	Operational only for short periods
Intermittent operation	-20 °C ... -10 °C and +65 °C ... +85 °C	Operation not guaranteed but an attempt to operate will not damage the phone
No operation	-40 °C ... -20 °C	Operation not possible but an attempt to operate will not damage the phone
No operation or storage	< -40 °C and > +85 °C	No storage; an operation attempt may cause permanent damage
Charging allowed	-25 °C ... +60 °C	
Long term storage conditions	0 °C ... +40 °C	

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Transceiver features

Main HW/features include:

- EDGE MSC 10
- GPRS MSC 10
- Active TFT color display 208x104 - 65k colors
- Integrated Camera - VGA 640x480
- Douglas style UI with rotator, select key and 2 soft keys. On/off is the end key long press.
- Integrated Handsfree IHF speaker
- Digital camcorder - record and playback
- Streaming video incl. AMR (tbc)
- Bluetooth - incl. SIM Access Profile (SAP), SyncML, multimedia file transfer profiles
- MMS 2.0 conformance
- XHTML/WAP2.0 browser
- Presence/Dynamic phonebook-Wireless village
- FM radio. Mono with wired headset, Stereo with Stereo Bluetooth headset.
- MIDI support - 24 polyphonic
- Internal 64MB user memory (No MMC card!)
- IrDa

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Electrical characteristics

Table 5: Absolute maximum ratings

Table 6:

Parameter	Min.	Typical	Max.	Unit
Battery Voltage	3.145	3.7	4.23	V
Charger Input Voltage	0		16	V
Charging Current	0		0.85	A

Table 7: Current consumption

Table 8:

Condition	Min.	Typical	Max.	Unit
Call (MoU) (E)GSM 900 GSM 1800 GSM 1900		 208 188 168		mA
Idle (MoU)		2.72		
Power off	150		250	mA

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